

Elexant 4010i Heat Trace Controller



nVent RAYCHEM Elexant 4010i Series is a range of compact, full-featured, touch screen based, single-point heat-tracing controllers, with ground fault protection. It provides control and monitoring for both freeze protection and process temperature maintenance. Available with either an electromechanical relay (EMR) for use in non hazardous areas, or solid-state relay (SSR) for use in non hazardous and Class I Div. 2 / Zone 2 hazardous locations. Capable of controlling up to 32A at 277 Vac.

FUNKCJE

Global approvals for CID2/Zone 2, ATEX Zone 2, IEC Ex Zone 2

Ready to install: no need for custom panel design or field assembly

Flexible control options: up to three directly- connected temperature sensors; also supports 4-20 mA inputs, allowing the use of external temperature sensor converters with thermocouples or other sensor types; also line sensing, ambient sensing, proportional ambient sensing control (PASC) and power limiting modes.

Flexible monitoring options: ground fault, temperature, current and voltage to ensure system integrity

Multiple communication ports: RS485 and Ethernet, readily connected to a distributed control system (DCS); support both the Modbus RTU and Modbus/TCP protocols; can network to a host PC running Windows®-based nVent RAYCHEM Supervisor software for central programming, status review, and alarm annunciation

Reliable during long life: 10 year product warranty available

Soft-Start, ground fault trip and high/low temperature limit features for equipment protection

Multiple communication ports: RS485 and Ethernet, readily connected to a distributed control system (DCS)

Support both the Modbus RTU and Modbus/TCP protocols

Automatic network configuration with DHCP, or static IP configuration

Firmware updates using USB thumb drive

Multi-language interface: English, French, German, Spanish, Russian

Two multi-purpose digital inputs for connection to external dry (voltage free) contact or DC voltage

OKREŚLENIU SPECYFIKACJI

Current Alarm:	0,1 – 100 A
Autocycle:	1 – 750 h
NEMA Rating:	4X
Ground Fault Alarm:	10 – 500 mA

Ethernet:	10/100 Base-T
Max Power Supply Input Wire Size:	16,8 mm ²
Max Heating Cable Output Wire Size:	16,8 mm ²
Control Max Current:	32A @ 40°C, De-Rated to 24A @ 50°C and Further De-Rated to 16A @ 60°C
Maks. rozmiar drutu zacisku uziemienia:	33 mm ²
Voltage Alarm:	80 – 300 V
Control Max Voltage:	277 VAC Nominal, 50/60Hz
Relative Humidity:	0% to 90%, Noncondensating
Komunikacja:	RS-485; Ethernet
Communication Protocol:	Modbus/TCP; Modbus RTU
RS-485 Cable Type:	One 2-Wire, Shielded Twisted Pair
Temperature Control Range:	-200 do 700°C
Temperature Alarm:	-200 do 700°C
Temperatura pracy:	-40 do 60°C

Table 1/2

Numer katalogowy	Nazwa pozycji	Materiał	IP Rating	Control Relay Type	Control Algorithms	Wysokość
10380-009	4010i-EMR-IS-FW	Fiber-Reinforced Plastic	IP64	Double-Pole, Mechanical	On/Off, PASC, Always On, Always Off	305 mm
10380-010	4010i-SSR-IS-FW	Fiber-Reinforced Plastic	IP64	Double-Pole, Solid-State	On/Off, Proportional, PASC, Always On, Always Off	308 mm
10380-011	4010i-EMR-IS-SW	Stainless Steel, 304	IP66	Double-Pole, Mechanical	On/Off, PASC, Always On, Always Off	300 mm
10380-012	4010i-SSR-IS-SW	Stainless Steel, 304	IP66	Double-Pole, Solid-State	On/Off, Proportional, PASC, Always On, Always Off	308 mm

Table 2/2

Numer katalogowy	Nazwa pozycji	Szerokość	Głębokość	Intrinsically Safe Barriers on RTD Inputs
10380-009	4010i-EMR-IS-FW	226 mm	156 mm	Tak
10380-010	4010i-SSR-IS-FW	226 mm	184 mm	Tak
10380-011	4010i-EMR-IS-SW	231 mm	160 mm	Tak

Numer katalogowy	Nazwa pozycji	Szerokość	Głębokość	Intrinsically Safe Barriers on RTDInputs
10380-012	4010i-SSR-IS-SW	231 mm	191 mm	Tak

OSTRZEŻENIE

Produkty nVent powinny być instalowane i używane wyłącznie zgodnie z instrukcjami i materiałami szkoleniowymi nVent. Instrukcje są dostępne na stronie www.nvent.com oraz u przedstawiciela działu obsługi klienta firmy nVent. Nieprawidłowa instalacja, niewłaściwe użycie, niewłaściwe zastosowanie lub inne nieprzestrzeganie instrukcji i ostrzeżeń nVent może spowodować nieprawidłowe działanie produktu, uszkodzenie mienia, poważne obrażenia ciała i śmierć i/lub utratę gwarancji.

Ameryka Północna

Tel +1.800.545.6258

Fax +1.800.527.5703

thermal.info@nvent.com

Europe, Middle East, Africa

Tel +32.16.213.511

Fax +32.16.213.604

thermal.info@nvent.com

Asia Pacific

Tel +86.21.2412.1688

Fax +86.21.5426.3167

cn.thermal.info@nvent.com

Ameryka Łacińska

Tel +1.713.868.4800

Fax +1.713.868.2333

thermal.info@nvent.com

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